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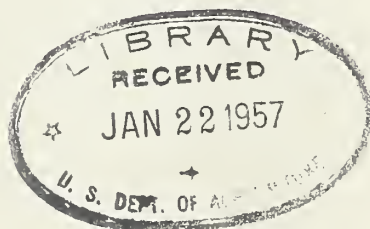


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A BIBLIOGRAPHY ON
FATTY ACIDS IN FOODS AND OTHER COMMODITIES
1920-1949



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This bibliography on fatty acids in foods and other commodities, compiled by Walter O. Lundberg, Eugene A. Breault, and Orville S. Privett, The Hormel Institute, University of Minnesota, was supported in part through a contract sponsored by the Human Nutrition Research Branch, Agricultural Research Service, U. S. Department of Agriculture.

The bibliography was arranged and prepared for publication by Verz R. Goddard, Human Nutrition Research Branch, Agricultural Research Service, U. S. Department of Agriculture.

The current demand for information on sources of fatty acids makes it advisable to publish this bibliography for the three decades (1920 to 1949) although compilation is being continued in order to cover recent years. The bibliography includes not only food sources but some nonfood items of commercial or potential industrial importance, not all of which can be classed as edible fats and oils. A subject index is also included for ready reference. These references will be useful to technologists in a number of fields.

Of primary interest to nutritionists will be a set of food tables now in preparation, showing the fatty acid content of foods commonly consumed in this country. These tables will include suitable data and references since 1920, in order to provide values as reliable as possible for estimating the quality of the fat consumed by individuals and population groups.

September 1956

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A study of the oils from the seeds of *Luffa aegyptiaca*, *Benincasa ceriferra* (N.O. Cucurbitaceae) and *Allium cepa* (N.O. Liliaceae).
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Oil of *Blighia laurentii* Wildmann.
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Bread (analyses).

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BREAD FRUIT (TRECULIA AFRICANA)

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Component fatty acids of bread fruit.

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Extraction and evaluation of oil from dried brewers' grains.

Journal of Am. Oil Chem. Soc. 27, 133, (1950). (C.A. 44:5121^f)

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Biochem. J. 40, 664-9 (1946). (C.A. 41:2504^d)

LAPPA FRUITS (LAPPA MAJOR, MINOR AND TOMENTOSA)

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Burdock fruit.

Phar. Zentralhalle 87, 65-73 (1948). (C.A. 44:7027^f)

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The oils of Lalpa fruits.

Pharm. Ztg. 84, 323-3 (1948). (C.A. 43:4871^f)

BURDOCK (LAPPA TOMENTOSA: ALSO CALLED ARCTIUM LAPPA, LINN.)

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Constituents of the oil of burdock.

J. Pharm. Soc. Japan 51, 983-8 (1931): (in German, 132-4).

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BURDOCK (LAPPA TOMENTOSA: ALSO CALLED ARCTIUM LAPPA, LINN.) (continued)

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Oil from burdock seeds (*Lappa tomentosa*).

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"Bushaie", an oleaginous seed of Kivu.

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The higher saturated fatty acids of butterfat.

J. Biol. Chem. 116, 203-8 (1936). (C.A. 31:7673)

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Composition of butterfat. (Summary).

Ark. Agr. Expt. Sta. Bull. 280, 40 (1932). (C.A. 28:7374⁵)

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The fatty acids and component glycerides of some New Zealand butters.

Analyst 54, 75-96 (1929). (C.A. 23:1963⁵)

132. Mitchell, C. A.

The stearic acid content of butter fat.

Analyst 49, 515-6 (1924). (C.A. 19:1168⁵)

133. Frog, F., and Schmidt-Nielsen, S.

The fatty acid distribution of butter fat.

Biochem. Z. 127, 168-73 (1922). (C.A. 16:1624⁶)

CABBAGE (WHITE) (BRASSICA OLERACEA)

134. Ozaki, Junichi.

The ether extractives of white leaves of cabbage.

II. The composition of the oil.

J. Agr. Chem. Soc. Japan 6, 688-700 (1930). (C.A. 25:983⁹)

cf. C.A. 21:3648; 21:2489

CALABASH (CRESCENTIA CUJETE L.)

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Oil from calabash seed, *Crescentia cujete* L.

J. Am. Oil Chem. Soc. 24, 52-4 (1947). (C.A. 41:2259^g)

CALLISTEMON LANCEOLATUM

136. Sallusto, Frederico.

Chemical investigation on *Callistemon* (Myrtaceae).

I. Fat extracted from the berries.

Ann. ist. super. agrar. Portici 8, 41-7 (1936-37).

(C.A. 34:2623⁹)

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The acids of camel hump fat.

J. Soc. Chem. Ind. 43, 164T (1924). (C.A. 18:2436⁶)

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Cantaloupe-seed oil.

J. Am. Chem. Soc. 42, 2398-401 (1920). (C.A. 15:770⁸)

CAPEBERRY (MYRICA CORDIFOLIA)

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Fruit coat of fat of *Myrica cordifolia*--capeberry wax.

I. Physical and chemical constants and fatty acid composition.

J. S. African Chem. Inst. 1, 5-13 (1948). (C.A. 43:3217^c)

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CARAWAY SEED (CARUM CARVI)

See No. 777.

CARROT SEED (DAUCUS CAROTA)

See No. 777.

CASHEW NUT (ANACARDIUM OCCIDENTALE)

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Study of the nuts of acajou (*anacardium occidentale*).
Rev. alimentar 4, No. 33, 10; No. 34, 9-10 (1940).
(C.A. 35:339¹)
142. Padilla, Salvador P., and Soliven, Florencio, A.
Chemical analysis for possible sources of oils of forty-five
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Oil & Soap 20, 46 (1943). (C.A. 37:2602⁴)

ELDERBERRY (*SAMBUCCUS CANNADENSIS*)

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Oil and Soap 13, 314-16 (1936). (C.A. 31:897⁴)

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Seed fat of *Oenothera biennis* L. (evening primrose).
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The use of the oil of *Oenothera biennis* as a drying oil.
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(C.A. 41:6739^a)

FENNEL (FOENICULUM OFFICINALE)

See No. 777.

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The analytical constants and composition of fatty acids of Egyptian fenugreek oil.
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Chemical study of Barcelona and Du Chilly filbert nuts
and oils.
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Ole, Fette, Wachse, Seife, Kosmetik 1936, No. 14, 2-4
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FISH

See No. 16.

ANGEL (SQUATINA ANGELUS)

See No. 272.

ANGLER (MONK) (TOPHIUS PISCATORIUS)

See No. 314.

BONITO (GERMO ALALUNGA)

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BONITO (GERMO ALALUNGA) (continued)

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BONITO OIL (EUTHYMNUS PELAMYS)

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Constituents of bonito oil. IV. Liquid acids (2).
J. Chem. Soc. Japan 60, 49-55 (1939). (C.A. 34:2626²)
cf. C.A. 33:1978²

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J. Chem. Soc. Japan 58, 234-5 (1937). (C.A. 31:3313⁸)

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270. Lovern, John A.
Fat metabolism in fishes. VII. The depot fats of certain fish fed on known diets.
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cf. C.A. 29:5931⁷
(*from The Chemical Constitution of Natural Fats
by T. P. Hilditch, Wiley & Sons, 2nd Edition, P. 42).

See No. 314 (Cyprinus carpio)

CASTOR OIL FISH (RUVETTUS PRETIOSUS)

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Chemical composition of oil of Ruvettus pretiosus, the "castor oil fish."
J. Am. Chem. Soc. 54, 220-9 (1932). (C.A. 26:1145⁸)

See also No. 308.

FISH (continued)

CATFISH (ANARRHICHAS LUPUS)

272. Lovern, John A.

Fat metabolism in fishes. XI. Specific peculiarities in depot fat composition.

Biochemical J. 31, 755-763, 1937. (C.A. 31:6350³)

CHANOSCHANOS (FORSKAL)

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The fatty oil of Chanoschanos (Forsk.)

J. Soc. Chem. Ind., Japan 38, Suppl. binding 650 (1935).
(C.A. 30:2030⁷)

CHILOSYLLIUM PUNCTATUM LIVER OIL

274. Kunisaki, Tatsuki, and Hata, Chiuta.

Chemical studies on fishes and liver oils in the Southwestern Pacific Ocean. IX. The liver oil of Dalatias acus and Chilosyllium punctatum.

J. Chem. Soc. Japan 65, 301-4 (1944). (C.A. 42:725^h)
cf. C.A. 41:3310^c)

CLUPEA ILISHA

275. Goswami, M., and Datta, J.

Examination of the oil of Clupea ilisha.

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Fish oils.

J. Oil and Colour Chemists' Assoc. 32, 113-22 (1949).

(C.A. 43:8179^b)

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Component acids and glycerides of partly hydrogenated marine animal oils. III. North Sea cod liver oil.

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The fractional distillation of the saturated fatty acids of extremely hydrogenated oils.

J. Soc. Chem. Ind., Japan 38, Suppl. binding 398-400 (1935).
(C.A. 29:8370⁹)

COD FISH LIVER OIL

280. Tsujimoto, M., and Kimura, K.

The highly unsaturated acids in cod-liver oil.

J. Chem. Ind. (Japan) 26, 1162 (1923). (C.A. 18:2259⁶)

CRAB (BIRGUS LATRO, L)

281. Hilditch, T. P., and Murti, K. S.

The fat of land crabs. (Seychelles Islands).

J. Soc. Chem. Ind. 58, 351-3 (1939). (C.A. 34:2193⁶)cf. C.A. 43:8179d; 42:3594cd; 41:2915i; 39:5035⁶;
34:5548⁶; 23:1296⁶

CRAB "KEGANI" (ERIMACRUS ISENBECKI, BRANDT)

282. Tsujimoto, Mitsumaru.

Marine animal oils.

J. Soc. Chem. Ind. Japan 40, Suppl. binding 184-6 (1937).(C.A. 31:6492⁶)

DALATIAS ACUS

See No. 274.

FAN FISH (DASYATIS AKIJEI)

283. Wang, Tiao-Hsin, and Kan, Ching-Hao.

Liver oil from Dasyatis akiei: Vitamin content, physical and chemical constants.

J. Chinese Chem. Soc. 4, 393-401 (1936). (C.A. 31:1238²)

GROUPE (EPINEPHELUS AENEUS)*

284. Otero Aenlle, Enrique.

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*Terminology was corrected. See C.A. 38 (Subject Index)

HADDOCK (GADUS AEGLEFINUS)

See No. 314.

HALIBUT (HIPPOGLOSSUS VULGARIS)

See No. 314.

HALIBUT (HIPPOGLOSSUS HIPPOGLOSSUS)

See No. 272.

HERRING (CALANUS FINMARCHICUS)

285. Tsuchiya, Tomotaro, and Kato, Akio.
Highly unsaturated fatty acids. XIV. Highly unsaturated fatty acids of herring oil.
Repts. Govt. Chem. Ind. Research Inst. Tokyo 45, 191-4 (1950). (English summary). (C.A. 46:2317^b)
cf. C.A. 41:3755^a
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Acta Natural. Island 1, 1-9 (1946). (C.A. 43:2001^e)
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cf. C.A. 37:2603³
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J. Soc. Chem. Ind. Japan 43, Suppl. binding 110 (1940).
(C.A. 34:5688²)

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Composition of the saturated fatty acids of the Japanese great herring oil. (Onishin oil).
J. Soc. Chem. Ind. Japan 33, Suppl. binding 62-4 (1930).

See also No. 279.

HERRING, GREAT-

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Composition of herring oil. I. Saturated acids and acids of the oleic series of great-herring oil.
J. Soc. Chem. Ind. Japan 29, 195-202 (1926). (C.A. 20:2912⁴)

HERRING

292. Takahashi, Katsumi.
Fat of "Kazunoko."
J. Chem. Soc. (Japan) 43, 257-68 (1922). (C.A. 16:2370⁵)
293. Grimme, Cl.
Composition of herring oil.
Chem. Umschau 28, 17-19 (1921). (C.A. 15:1228⁵)

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HOKKE OIL (PLEUROGRAMMUS MONOPTERYGIUS)

294. Ueno, Sei-ichi, and Iwai, Massayoshi.
Oil of hokke (*Pleurogrammus monopterygius* Pallas). With
special reference to the occurrence of new highly unsaturated
C₂₈ acids.
Bull. Chem. Soc. Japan 11, 643-9 (1936). (C.A. 31:1646⁵)
295. Ueno, Sei-ichi, and Iwai, Massayoshi.
Composition of hokke (*Pleurogrammus monopterygius*) oil.
Especially the occurrence of new highly unsaturated fat acids.
J. Chem. Soc. Japan 57, 462-8 (1936). (C.A. 30:5823⁶)
296. Toyama, Yoshiyuki, and Ishikawa, Tokuzo.
Oil of *Pleurogrammus monopterygius* Pallas.
J. Soc. Chem. Ind. Japan 39, Suppl. binding 302-4 (1936).
(C.A. 31:564⁵)

IKANAGO FISH OIL (AMMODYTES PERSONATUS)

297. Ueno, Sei-ichi, and Ishihara, Shozo.
Composition of Ikanago fish oil, especially of the highly
unsaturated acids.
J. Soc. Chem. Ind. Japan 40, Suppl. binding 435-7 (1937).
(C.A. 32:5240⁶)

ISHINAGI LIVER OIL (STEREOLEPIS ISCHINAGI)

298. Tsujimoto, Mitsumaru.
Occurrence of a hydrocarbon in Ishinagi liver oil.
Bull. Chem. Soc. Japan 6, 237-9 (1931). (C.A. 26:612⁹)

ITOYO FISH OIL (GASTEROSTENS ACULEATUS)

299. Ueno, Sei-ichi, and Komori, Saburo.
The composition of Itoyo fish oil.
J. Soc. Chem. Ind. Japan 38, Suppl. binding 345-52 (1935).
(C.A. 29:6451⁶)

JACOPEVER (*SEBASTICHTHYS CAPENSIS*, GMEL.)

300. Van Rensburg, N. J., and, in part, Rapson, W. S., and Schwartz, (Miss) H. M.
South African fish products. Part XVI. The component acids of the head, body, liver and intestinal oils of the jacoever (*Sebastichthys capensis*, Gmel.).
J. Chem. Ind. 64, 139-140 (1945). (C.A. 40:6851¹)

JAU FISH (*PAULICEA LUTKENI* STEIND.)

301. Hauptmann, Heinrich.
Composition of the oil of the Jau Fish (*Paulicea lutkeni* Steind.).
Anais assoc. quim. Brasil 1, 96-109 (1942). (C.A. 24:1286⁹)

LABEO ROHITA

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Examination of the unsaturated acids in fish oil.
J. Indian Chem. Soc. 7, 309-19 (1930). (C.A. 37:4178¹)

LAMPERN (*Petromyzon fluriatilis*)

See No. 272.

MENHADEN OIL

303. Smith, Frank A., and Brown, J. B.
The fatty acids of menhaden oil. I. Examination of the C₁₂, C₁₄, C₁₆, and C₁₈ fractions by low-temperature crystallization procedures.
Oil & Soap 22, 277-283 (1945). (C.A. 40:225⁴)
304. Baldwin, W. H., and Lanham, W. B., Jr.
The chemistry of menhaden oil. Component fat acids.
Ind. Eng. Chem. Anal. Ed. 13, 615-16 (1941). (C.A. 35:7222⁶)
305. McGregor, R. R., and Beal, G. D.
Highly unsaturated fatty acids of fish oils. II. The limit of unsaturation in menhaden oil.
J. Am. Chem. Soc. 48, 3150-61 (1926). (C.A. 21:223⁹)
cf. C.A. 17:226⁵
306. Brown, J. B., with Beal, G. D.
The highly unsaturated fatty acids of fish oils.
J. Am. Chem. Soc. 45, 1289-303 (1923). (C.A. 17:2265⁵)

MENUKE OIL

307. Ueno, Sei-ichi, and Iwai, Massayoshi.
The constituents of Menuke oil. I. Determination of the aliphatic acids.
J. Soc. Chem. Ind. Japan 37, Suppl. binding 52-3 (1934).
(C.A. 28:2930⁸)

FISH (continued)

MULLET, GRAY (KARASUMI OIL) (MUGIL JAPONICUS)

308. Tsujimoto, Mitsumaru, and Koyanagi, Hanji.
Distillation of Inguandaramé and Karasumi oils under
reduced pressure.
J. Soc. Chem. Ind. Japan 40, Suppl. binding 403-5 (1937).
(C.A. 32:1963⁵)

309. Kafuku, Kinzo, and Hata, Chiuta.
The ovary oil of fresh mullet.
J. Soc. Chem. Ind. Japan 37, Suppl. binding 455 (1934).
(C.A. 28:7570³)

310. Tsujimoto, Mitsumaru.
The oil of "karasumi."
J. Soc. Chem. Ind. Japan 36, Suppl. binding 676 (1933).
(C.A. 28:1560⁹)

MUSSEL (MYTILUS EDULIS) See No. 276.
OKIGISU FISH (ARGENTINA KAGOSHIMAE, JORDAN AND SNYDER)

311. Ueno, Sei-iti, and Tamura, Teizo.
The composition of Okigisu fish (Argentina kagoshimae, Jordan
and Snyder) oil. I. The composition of saturated fatty acids.
J. Soc. Chem. Ind. Japan 42, Suppl. binding 150-1 (1939).
(C.A. 33:9023⁹)

PERCH (PERCA FLUVIATILIS)

312. Chechenkin, M. N.
Chemistry of the fats of fresh water fishes.
J. Gen. Chem (U.S.S.R.) 16, 1741-52 (1946). (C.A. 41:5990^b)

PERCH, SEA (SEBASTES MARINUS)

313. Levanidov, I.
Sea perch (Sebastes marinus) oil.
Masloboino Zhirovoe Delo 1931, No. 2-3, 30-2; Chimie & industrie
27, 635-6 (1932). (C.A. 26:3126⁹)

314. Lovern John A.
Fat metabolism in fishes. I. General survey of the fatty acid
composition of the fats of a number of fishes, both marine and
fresh water.
Biochemical J. 26, 1978-84 (1932). (C.A. 27:3254)

PIKE (ESOX LUCIUS)

See No. 314.

FISH (continued)

PILCHARD OIL (SARDINOPS CAERULA)

315. Brocklesby, H. N., and Harding, K. J.
Fish oils. VIII. The approximate composition of the fat
acids of the oil of pilchards (*Sardinops caerula*).
J. Fisheries Research Board Can. 4, 59-62 (1938). (C.A. 32:5651¹)
316. Brocklesby, H. N.
Approximate composition of Canadian pilchard oil.
Biol. Board Can. Progress Repts. Pacific Biol. Sta. and
Pacific Fisheries Exptl. Sta. No. 30, 10-20 (1936).
(C.A. 31:1646⁷)
317. Brocklesby, H. N.
Fish oils. I. Some properties of commercial pilchard oil.
Can. Chem. Met. 13, 212-4, (1929). (C.A. 23:4585⁶)
318. Langton, H. M.
Pilchard oil.
J. Soc. Chem. Ind. 42, 47-8T (1923). (C.A. 17:1344⁸)

POLLACK, ALASKAN

See Nos. 85 and 272.

POLLACK (GADUS POLLACHIUS)

See No. 272.

POLLAN (COREGONUS POLLAN)

See No. 314.

RATFISH (CHIMAERA MONSTROSA)

See No. 272.

SALMON (SALMO SALAR)

319. Lovern, John A.
Fat metabolism in fishes. IV. Mobilization of depot fat in
the salmon.
Biochemical J. 28, 1955-60 (1934). (C.A. 29:2606^{6,7})
- Fat metabolism in fishes. V. The fat of salmon in its young
fresh-water stage.
Biochemical J. 28, 1961-3 (1934). (C.A. 29:2606^{6,7})

FISH (continued)

SARDINE (CLUPANODON MELANOSTICA)

320. Toyama, Yoshiyuki.

Sardine liver oil.

J. Soc. Chem. Ind. Japan 40, Suppl. binding 402-3 (1937).

(C.A. 32:1963⁸)

cf. C.A. 41:3754^{f,i}; C.A. 41:3049^e

321. Toyama, Yoshiyuki, and Tsuchiya, Tomotaro.

The highly unsaturated acids in sardine oil. VII. The separation of highly unsaturated C_{22} acids.

Bull. Chem. Soc. Japan 10, 433-40 (1935). (C.A. 30:316⁷)

cf. C.A. 29:8378^{6,8}

322. Toyama, Yoshiyuki, and Tsuchiya, Tomotaro.

The highly unsaturated acids in sardine oil. V. Constitution of eicosatetrenoic acid $C_{20}H_{32}O_2$.

Bull. Chem. Soc. Japan 10, 296-300 (1935). (C.A. 29:8378⁶)

cf. C.A. 29:6208³

323. Kino, K.

C_{22} acids of sardine oil.

J. Soc. Chem. Ind. Japan 37, Suppl. binding 442-4 (1934).

(C.A. 28:7570⁶)

324. Takano, Masakichi.

Unsaturated fatty acids of the oleic series in Japanese sardine oil.

J. Soc. Chem. Ind. Japan 36, Suppl. binding 549-50 (1933).

(C.A. 28:354⁴)

325. Takano Masakichi.

~~Chemical~~ constitution of the unsaturated fatty acid

$C_{20}H_{38}O_2$ in Japanese sardine oil.

J. Soc. Chem. Ind. Japan 36, Suppl. binding 550-1 (1933).

(C.A. 28:353⁹)

See No. 279.

SEA TROUT, BROWN TROUT (SALMO TRUTTA)

See Nos. 272 and 319.

SPOTTED DOGFISH (SCYLLIUM CANICULA)

See No. 272.

SPRAT (CHIPEA SPRATTUS)

See No. 314.

FISH (continued)

STICKLEBACK OIL (GASTEROSTEUS ACULEATUS L.)

326. Karttunen, Toivo.

Finnish stickleback oil.

Suomen Kemistilehti 8A, 119 (1935). (C.A. 30:315⁵)

STOCKFISH OR HAKE (MERLUCCIOUS CAPENSIS, CAST.)

327. Van Rensburg, N. J., and, in part, Rapson, W. S., and
Schwartz, (Miss) H. M.

South African fish products. Part XVII. The component acids
of the liver oil of the stockfish (*Merluccius capensis*. Cast.)
J. Soc. Chem. Ind. 64, 140-143 (1945). (C.A. 40:6851³)

STURGEON (HUCHEN OIL) (ACIPENSER STURIO)

328. Williams, N. V., and Burlachenko, P. O.

A chemical study of huchen oil.

Schriften zentral. Forschungsinst. Lebensmittelchem.
(U.S.S.R.) 4, 170-4 (1935). (C.A. 30:4707⁴)

THYNNICHTYS THYMNOIDES BLEEKER

329. Marcelet, Henri.

Fat of the *Thynnichtys thymnoides* Bleeker, a fish from Combodia,
compared to the fatty matter of other marine animals.

Bull. inst. oceanograph. No. 833, 16 pp. (1943). (C.A. 41:1853¹)

TROUT (SALMO TRUTTA)

See No. 319.

TUNNY OIL (THUNNUS ORIENTALIS)

330. Hata, Chuta, and Kunisaki, Tatsuki.

Fish oils in Formosa. III. Liver oil and bone oil of
Thunnus orientalis.

J. Chem. Soc. Japan 63, 64-70 (1942). (C.A. 41:2918^e)

331. Sanna, G.

Investigation and composition of the Sardinian tunny oils.

Ren. seminar facolta sci. univ. Cagliari 7, 53-7 (1937).

Chem. Zentr. 1937, II, 2616. (C.A. 33:5690⁴)

332. Ueno, Sei-ichi, and Yonese, Chizuo.

Saturated fatty acids of tunny oil.

J. Chem. Soc. Japan 58, 430-7 (1937). (C.A. 31:6493⁶)

333. Tomiyama, Tetsuo.

Chemical composition of tunny-liver oil.

Bull. Agr. Chem. Soc. Japan 9, 141-7 (1933). (C.A. 28:2557⁹)

TURBOT (RHOMBUS MAXIMUM) See No. 272.

FISH (continued)

UNI (SALTED SEA EGGS)

334. Takahashi, Katsumi.

Fatty matters in "Uni."

J. Chem. Soc. (Japan) 43, 243-57 (1922). (C.A. 16:2370³)

WHITEFISH, ASTRAKHAN (COREGONUS SP. SALMONIDAE)

335. Williams, N. V., and Onishchenko, A. S.

A study of the composition of Astrakhan whitefish oil.

Schriften zentr. Forschungsinst. Lebensmittelchem. (U.S.S.R.)

4, 145-9 (1935). (C.A. 30:4706¹)

FISH, SHARK

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Composition of the fatty acids present as glycerides in elasmobranch oils.

Analyst 53, 246-57 (1928). (C.A. 22:3058⁹)

ABURATSUNOZAME (SQUALUS WAKIYAE TANAKA)

337. Toyama, Yoshiyuki, and Tsuchiya, Tomotaro.

The fatty acids of shark and ray liver oils. V. The fatty acids of aburatsunozame.

J. Soc. Chem. Ind. Japan 30, 207-15 (1927). (C.A. 21:1719⁷)

cf. C.A. 21:1195

AKA-AIZAME (CENTROPHORUS LUSITANICUS)

338. Tsujimoto, Mitsumaru.

The fatty acids of shark and ray liver oils. II. The fatty acids of Aizame liver oil.

J. Soc. Chem. Ind. Japan 29, 67-71 (1926). (C.A. 20:2421²)

ALOPOECIA VULPES

See No. 276.

BASKING (CETORHINUS MAXIMU, GUNNER)

339. Karnovsky, M. L., Rapson, W. S., Schwartz, H. M., Black, M., and von Rensburg, N. J.

South African fish products. XXVII. The composition of the liver oils of the basking shark (*Cetorhinus maximus*, Gunner) and the spiny shark (*Echinorhinus spinosus*, Gmelin).

J. Soc. Chem. Ind. 67, 104-106 (1948). (C.A. 42:6555^d)

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J. Soc. Chem. Ind. 67, 144-147 (1948). (C.A. 42:9091^d)

FISH, SHARK (continued)

BASKING (CETORHINUS MAXIMUS, GUNNER) (continued)

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Chemical study of the liver oil of a young male basking-shark,
Cetorhinus maximus Gunner. Biological relations between
cholesterol and squalene.
Ann. combustibles liquides 3, 833-50 (1928). (C.A. 23:3364⁵)
cf. C.A. 21:1891

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Compt. rend. trav. faculte sci. Marseille 1, 79-80 (1941).
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The liver oil of *Carcharodon carcharias* L.
Compt. rend. trav. faculte sci. Marseille 1, 8-10 (1941).
(C.A. 40:5583⁹)

DOG FISH (MUSTELUS CANIS)

See No. 284.

GALEOCERDO ARCTICUS

See No. 343.

HAMMERHEAD (CESTRACION ZYGAENA AND SPHYRNA ZYGAENA)

343. Hata, Chuta, and Kunisaki, Tatsuki.
Fish oil and liver oil from the Southwestern Pacific. IV. The
liver oil of *Scoliodon walbeehmi*, Bleeker, 1.
J. Chem. Soc. Japan 63, 1585-90 (1942). (C.A. 41:3309ⁱ)
cf. C.A. 41:2918^e
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Fish oil and liver oil from the Southwestern Pacific.
V. The liver oil of *Scoliodon walbeehmi*, Bleeker, 2.
J. Chem. Soc. Japan 63, 1591-5 (1942).
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Fish oil and liver oil from the Southwestern Pacific.
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Fish oil and liver oil from the Southwestern Pacific.
VIII. The liver oil of "Toribuka" (*Galeocerdo arcticus*, Faher).
J. Chem. Soc. Japan 65, 189-95 (1944).

FISH, SHARK (continued)

HAMMERHEAD (CESTRACION ZYGAENA AND SPHYRNA ZYGAENA) (continued)

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Hammerhead shark liver oil and its unsaturated fat acids.
Rev. brasil. chim. Sao Paulo 10, 232-8, 244 (1940) (C.A.35:924⁷)

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345. Toyama, Yoshiyuki, and Tsuchiya, Tomotaro.
The fatty acids of shark-and ray-liver oils. IV. The fatty acids of Kokonohoshi-Ginzame liver oil.
J. Soc. Chem. Ind. Japan 30, 116-22 (1927). (C.A. 21:1195⁴)

SCHOOL (GALEORHINUS AUSTRALIS)

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New Zealand fish oils, V. Composition of the fats of the school shark (*Galeorhinus australis*).
Biochem. J. 43, 18-24 (1948). (C.A. 43:2451^b)
cf. C.A. 42:6142^b

SCOLIODON WALBEEHMI AND S. SORRA KOWAH

347. Gajjar, Indira.
Chemical composition of Bombay shark liver oil.
Current Sci. 13, 181-2 (1944). (C.A. 39:432⁶)

See No. 343.

SEVEN-GILLED (HEPTRANCHIAS PECTOROSUS, GARMAN)

See No. 339.

SHARK LIVER OIL

348. Gajjar, Indira M.
Chemical composition of (Indian) shark liver oil.
J. Sci. Ind. Research (India) 5, No. 1B, 18-23 (1946).
(C.A. 41:1855^h)

SOUFFIN (GALEORHINUS CANIS)

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South African fish products. XXIX. Composition of the liver oil of the soupfin shark.
J. Soc. Chem. Ind. 67, 193-6 (1948). (C.A. 43:818^f)
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SPINY (ECHINORHINUS SPINOSUS, GMELIN)

See. No. 339.

FISH, SHARK (continued)

YAMATO-TORPEDO

350. Toyama, Yoshiyuki, and Tsuchiya, Tomotaro.
The fatty acids of shark and ray liver oils. III. The fatty acids of Yamato-torpedo liver oil.
J. Soc. Chem. Ind. (Japan) 30, 63-70 (1927). (C.A. 21:1022⁶)

FISH, SHARK LIVER AND EGG OIL

ABURA-GAREI (REINHARDTIUS MATSUURAE, JORDAN AND SNYDER)

See Nos. 279 and 282.

BASKING-SHARK LIVER OIL (CETORHINUS MAXIMUS, GUNNER)

351. Tsujimoto, Mitsumaru.
Liver oils of two large basking-sharks caught in Toyama Bay.
J. Chem. Soc. Japan 55, 699-701 (1934). (C.A. 28:6484⁷)

BLUE-SHARK LIVER OIL (PRIONACE GLAUCA)

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The composition of blue-shark liver oil. I. The compositions of unsaponifiable matter and fat acids.
J. Soc. Chem. Ind. Japan 37, Suppl. binding 506-7 (1934).
(C.A. 29:368⁹)

CARCHARIAS GANGETICUS (MUELLER AND HENLE)

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A shark liver oil with a low iodine number.
Chem. Umschau Fette, Ole, Wachse, Harze 39, 50-2 (1932).
(C.A. 26:3126⁶)

DOG FISH SHARK LIVER, SPOTTED (SCYLLIUM STELLARE)

354. Marcellet, Henri.
Oil of Scyllium stellare CB_p.
Bull. inst. oceanograph No. 704, 11 pp. (1936). (C.A. 31:282⁶)

GALEORRHINUS MENTO LIVER OIL

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Pharm. Ztg. 81, 933-4 (1936). (C.A. 30:7887⁹)

GENYPTERUS BLACODES (LING) AND G. CHILENSIS

See No. 355.

GONSHIKA LIVER OIL

See No. 282.

FISH, SHARK LIVER AND EGG OIL (continued)

HAMMER FISH (SPHYRNA ZYGAENA L.)

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The liver oil of the hammer fish (*Sphyrna zygaena* L.) and especially of the determination of the formula of the unsaturated acids which are contained in it.

Bol. ministerio agr. (Brazil) 28, No. 10-12, 61-73 (1939).
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HEPTRANCHIAS DEANI JORDAN AND STARKS EGG OIL

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Shark egg oil.

J. Agr. Chem. Soc. Japan 8, 788-95 (1932); Bull. Agr. Chem. Soc. Japan 8, 70-3 (1932). (C.A. 26:5222⁶)

HIRAGASHIRA LIVER OIL (SCOLIODON LATICAUDUS)

358. Ueno, Sei-ichi, and Iwai, Massayoshi.

The chemical composition of "Hiragashira" liver oil. A new highly unsaturated acid $C_{24}H_{38}O_2$.

J. Soc. Chem. Ind. Japan 37, Suppl. binding 251-5 (1934).
(C.A. 28:6007⁵)

See also No. 85.

PESCADA OIL (MERLUCCIOUS GAYI)

See No. 355.

FOX, SILVER BLACK

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The composition of the fat of the silver black fox.

Trans. Wisconsin Acad. Sci. 25, 113-6 (1930). (C.A. 24:4542⁹)

FROG (RANA TIGERINA AND R. RUGULOSA)

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Fatty substances from the adipose tissues of Chui-koe.

J. Pharm. Soc. Japan 69, 217-21 (1949). (C.A. 44:1614^e)

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Phosphatides, VII. Fatty acids of the liver phosphatides and of the liver oil from *Rana temporaria*.

Z. physiol. Chem. 221, 259-64 (1933). (C.A. 28:532^{8,9})

The Fat of the fatty deposit of *Rana temporaria*.

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cf. C.A. 28:184

FROG (RAJA TEMPORARIA) (continued)

362. Iwamoto, Yoshitora, and Kiseigawa, Motonao.
Bull-frog oil.
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(C.A. 24:2907⁵)

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Suddeut. Apoth. -Ztg. 88, 239-40 (1948). (C.A. 43:424^h)
cf. C.A. 26:4609; C.A. 37:5607⁵; C.A. 37:136³

GINGER (ZINGIBER OFFICINALE, ROSCOE)

364. Valenzuela, Patrocinio.
Philippine ginger.
J. Am. Pharm. Assocn. 15, 652-61, 734-44 (1926). (C.A. 21:625⁷)

GNETUM SCANDENS

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Fixed oil from the seeds of Gnetum scandens (Roxb.).
Proc. Indian Acad. Sci. 17A, 195-8 (1943). (C.A. 37:6918⁹)

GOAT FAT

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Fatty acids and glycerides of the body fat of she-goats.
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Goat tallow of Swiss origin.
Pharm. Acta. Helv. 7, 48-53 (1932). (C.A. 27:2053³)
cf. C.A. 26:4490⁵

GOKIZURU (ACTINOSTEMMA LOBATUM MAXIM.)

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Seed fats of gokizuru and turumame.
Kwagaku Kogyo Siryo (Materials for Chem. Ind. (Tokyo))
14, 18-23 (1941). (C.A. 35:4233³)

GOOSEBERRY, CAPE (PHYSALIS PERUVIANA)

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Chemical examination of the seeds of Physalis peruviana or
cape gooseberry. II.
Proc. Natl. Acad. Sci. India 7, 131-6 (1937). (C.A. 32:6086⁹)

GOOSE FAT

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The glycerides. X. The glycerides of goose fat.
Z. Nehr. Genusm. 43, 101-37 (1922). (C.A. 16:2612⁶)
cf. C.A. 15:183; C.A. 16:1159

See Nos. 163 and 166.

GOURD (CUCURBITA PALMATA)

372. Ault, Waldo C., Swain, Margaret L., and Curtis, L. C.
Oils from perennial gourds.
J. Am. Oil Chem. Soc. 24, 289-90 (1947). (C.A. 41:7140^h)

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Examination of the fatty oil from buffalo gourd seed.
J. Am. Chem. Soc. 65, 1783 (1943). (C.A. 37:6919¹)

GRAPEFRUIT (CITRUS DECUMANA AND C. GRANDIS)

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Composition of seed fats of West Indian citrus fruits.
J. Soc. Chem. Ind. (London), 67, 199-203 (1948). (C.A. 43:880^f)
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GRAPE SEED

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Oil from the grape seeds of wild vines (*Ampelopsis
quinquefolia* Michx.).
Fette u. Seifen 48, 12-14 (1941). (C.A. 36:1203³)
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Note on Muscadine (Hunt and Scuppernong) grape seed oil.
Oil & Soap 17, 246 (1940). (C.A. 35:338²)

GRAPESEED (RAISIN OIL) (VITIS VINIFERA)

385. Balbi, G., and Brambilla, M.
Grapeseed oil.
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Allied Ind. 12, 75 (1939). (C.A. 33:5681¹)
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California raisin (grape) seed oil.
Oil and Soap 12, 241 (1935). (C.A. 29:8376⁸)

GRAPESEED (RAISIN OIL) (VITIS VINIFERA) (continued)

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Raisin Oil. A by-product of unusual value.
Food Ind. 6, 444-5, 466 (1934). (C.A. 28:7377²)
390. Otin, C., and Dima, M.
Data on the composition of grapeseed oil.
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Grapeseed oil (Malaga and Riesling).
Allgem. Oel-u., Fett-Ztg. 28, 119-26 (1931). (C.A. 25:5306⁴)
392. Carriere, E., and Brunet.
Grapeseed oil.
Compt. rend. 185, 1516-8 (1927). (C.A. 22:879⁷)
393. Rabak, Frank.
Grapeseed oil (Concord grape).
J. Ind. Eng. Chem. 13, 919-21 (1921). (C.A. 15:4054⁸)
394. Anonymous
Grape oil from the Canadian vine (Vitis hederacea).
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GREWIA VILLOSA (SADAN SEED OIL)

See No. 110.

GROUNDNUT

See Peanuts Nos. 482, 576 and 577.

GUANABANA (ANNONA MURICATA L.)

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Puerto Rican fatty oils. II. Characteristics and composition
of Guanabana seed oil.
J. Am. Chem. Soc. 65, 208-9 (1943). (C.A. 37:1886⁵)
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GUAVA (PSIDIUM GUYAVA PYRIFERUM)

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The seed oil of Psidium guyava pyrifera of India.
Fettchem. Umschau 43, 8-9 (1936). (C.A. 30:2414¹)

See also No. 730.

HAWTHORN BERRY (D. C. PALL)

See No. 104.

HERACLEUM SPHONDYLIIUM

See No. 31.

HIPBERRY (ROSA CANINA)

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The utilization of dog rose for the preparation of foods containing vitamin C.

Ann. chim. applicata 35, 148-60 (1945). (C.A. 40:7442⁹)

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Hipberry seed oil.

Fette u. Seifen 50, 505 (1943). (C.A. 39:207⁴)

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Examination of the seeds and the oil of Rosa canina L. Compt. rend. acad. sci. U.S.S.R. 26, 259-61 (1940) (in German). (C.A. 34:5305⁶)

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Hipberry seed oil.

Pharm. Acta. Helv. 10, 75-8 (1935). (C.A. 29:7682⁴)

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Constituents of the fruit of the dog rose (Semen cynosbati) especially of the fatty oil contained therein.

Arch. Pharm. 260, 27-44 (1922). (C.A. 18:3679⁸)

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The oil in the juice of berries.

Masloboino Zhirovov Delo 1929, No. 2, 47-8. (C.A. 24:4413³)

HIPPOPOTAMUS

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J. Chem. Soc. 1950, 3141-4. (C.A. 45:2689⁸)

HORSE

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Biochem. J. 46, 80-85 (1950). (C.A. 44:8139^c)

cf. C.A. 43:6839^c

HORSE (EQUUS CABALLUS)

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Fractionation of horse fat.

Chimie & industrie Special No., 520 (Feb. 1929). (C.A. 23:4090⁹)

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Chemistry of the fat of *Equus caballus*.

J. prakt. Chem. 102, 241-66 (1921). (C.A. 15:3758⁶)

HORSE FAT

See Nos. 85 and 166.

HORSERADISH (RAPHANUS RAPHANISTRUM)

407. Bures, E.

The chemistry of some little-known oils. Oils of horseradish (*Raphanus raphanistrum*) seed.

Chimie & industrie Special No., 1056-77 (June 1933).
(C.A. 28:1209⁴)

HORSERADISH (MORINGA OLEIFERA)

408. Jamieson, George S.

Ben (*Moringa*) seed oil

Oil & Soap 16, 173-4 (1939). (C.A. 33:8431⁶)

See also Nos. 43, 142, and 546.

HORSERADISH TREE (MORINGA CONCANENSIS)

409. Patel, C. B.

Chemical investigation of seed oil of *Moringa concanensis*.

Current Sci. 12, 272-3 (1943). (C.A. 38:1655²)

HOUND'S TONGUE (CYNOGLOSSUM OFFICINALE)

410. Bertram, S. H.

Oil from the seeds of hound's tongue (*Cynoglossum officinale*).

Chem. en Pharm. Tech. (Dordrecht) 4, 89 (1948). (C.A. 43:3635^b)

HUCKLEBERRY (VACCINIUM MYRTILLUS L.)

See No. 108.

JABOTY FAT (ERISMA UNCINATUM AND E. CAICARATUM)

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Jaboty fat.

Chemistry and Industry 1935, 1095-7. (C.A. 30:1595⁷)

JABOTY KERNEL OIL

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Jaboty kernel oil.
Ann. Musee Colonial Marseille 3, No. 3, 37-8 (1925). (C.A. 23:1295⁸)

JAMBA OIL

413. Sudborough, J. J., Watson, H. E., Ayyar, P. Ramaswami, and
Mirchandani, T. J.
IV. Jamba oil. Vegetable oils containing glycerides of erucic
acid.
J. Indian Inst. Sci. 9A, 52-64 (1926). (C.A. 21:505⁸)

JOJOBA SEED (SIMMONDSIA CALIFORNICA, NUTT.)

414. Green, T. G., Hilditch, T. P., and Stainsby, W. J.
Seed wax of Simmondsia californica.
J. Chem. Soc. 1936, 1750-5. (C.A. 31:1647¹)
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415. McKinney, R. S., and Jamieson, G. S.
A non-fatty oil from jojoba seed.
Oil & Soap 13, 289-92 (1936). (C.A. 31:282⁴)

See No. 277.

JUPATY (Raphia taedigera Mait)

See. No. 148.

KALUMPANG SEED (STERCULIA TOMENTOSA AND S. FOETIDA)

416. Henry, A. J., and Grindley, D. N.
The oil of the seeds of ... Sterculia tomentosa...
J. Soc. Chem. Ind. 63, 188-90 (1944). (C.A. 38:6582⁹)
417. Hilditch, T. P., Meara, M. L., and Zaky, Y. A. H.
The component acids of Sterculia foetida seed fat (sterculia
oil): A correction of work previously reported.
J. Soc. Chem. Ind. 60, 198-203 (1941). (C.A. 35:8330⁶)
cf. C.A. 28:525⁴

KALUMPANG SEED (STERCULIA FOETIDA LINN.)

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Fruit of Sterculia lurida F. Muell.
Atti accad. Lincei; Classe sci. fis., mat. nat. 25, 263-8 (1937).
(C.A. 31:7933⁹)
419. Soliven, Florencio A., and Villafuerte, Isidro, Jr.
The proximate chemical composition of the seed and oil of
Philippine oil-bearing seeds. II. Sterculia foetida Linn.
Philippine Agr. 23, 666-80 (1935). (C.A. 29:3183⁴)
cf. C.A. 29:2766⁶

KALUMPANG SEED (STERCULIA FOETIDA LINN.) (continued)

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Fatty acids and glycerides of solid seed fats. II.
Composition of some Malayan vegetable fats.
J. Soc. Chem. Ind. 53, 197-203T (1934). (C.A. 28:5265⁴)

See also Nos. 142 and 744.

KAOLIANG (ANDROPOGON SORGHUM BROTH.)

421. Inaba, T., and Kitagawa, K.
Kaoliang oil.
J. Soc. Chem. Ind. Japan 37, Suppl. binding 434 (1934).
(C.A. 28:7570²)

KAOPK SEED (CEIBA PENTANDRA)

422. Nobori, Hiroso.
Composition of kapok seed oil.
J. Soc. Chem. Ind. Japan 44, Suppl. binding 227-9 (1941)
(in English). (C.A. 44:8138¹)
423. Mehlenbacher, Virgil C.
Characteristics of kapok oil.
Oil & Soap 14, 118-19 (1937). (C.A. 31:4518⁹)
424. Jamieson, G. S., and McKinney, R. S.
Expressed kapok seed oil.
Oil & Soap 13, 233-4 (1936). (C.A. 30:7370⁵)
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The kapok oil extracted from Sicilian seeds. (Chorisia speciosa).
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(C.A. 29:1669⁵)
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Philippine J. Sci. 46, 131-7 (1931). (C.A. 26:327¹)

See also Nos. 142 and 546.

KENAPH SEED (HIBISCUS CANNABINUS L.)

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Seeds and oil of Hibiscus cannabinus.
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KENAPH SEED (*HIBISCUS CANNABINUS* L.) (continued)

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Bull. agence gen. colonies 19, 530 (1926).

Bull. Imp. Inst. 24, 479-80 (1926). (C.A. 21:1021⁸)

HIBISCUS CANNABINUS L., MALVACEAE

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Oils and Fats Techn. Lab. (1926).

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Chem. Weekblad 30, 657-8 (1933). (C.A. 28:355⁷)

KOELREUTERIA PANICULATA

See No. 6.

LAGENARIA VULGARIS SERINGE

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Chemical examination of the fruits of *Lagenaria vulgaris*, Seringe (bitter variety). I. Constituents of the oil from the seeds.

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LAGENARIA VULGARIS

See No. 213.

LALLEMANTIA ROYLEANA BENTH. (*TUKHM-I-MALANGA*)

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Chemical examination of the fixed oil derived from the seeds of *Lallemantia royleana* Benth. or *Tukhm-i-malanga*.

Proc. Indian Acad. Sci. 14A, 80-4 (C.A. 36:1511²)

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Oil from the kernels of Lalob fruit, *Balanites aegyptiaca*.

J. Am. Oil Chem. Soc. 26, 730-2 (1949). (C.A. 44:1723^a)

LAMB FAT

See No. 163.

LAUREL BUTTER (LAURUS NOBILIS L.)

435. Yazicioglu, T.

Turkish laurel fat.

Fette u. Seifen 52, 593-5 (1950). (C.A. 45:2115^d)

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LEMON SEED (CITRUS LIMONIA)

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The oil obtained from lemon seeds.

Industria chimica 6, 1383-4 (1931). (C.A. 26:2882⁸)

LETTUCE (LACTUCA SCARIOLA L.)

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Chemical examination of the seeds of Lactuca scariola L.
(lettuce).

Indian Soap J. 12, 49-53 (1946). (C.A. 42:3975^g)

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Seed oils of Formosan plants. IX. Constituents of Leucaena
glauca (Linn.) seed oil.

J. Chem. Soc. Japan 55, 369-75 (1934). (C.A. 28:5265⁹)

cf. C.A. 27:3098

See also No. 142.

LIME

See No. 374.

LIZARD FAT (VARANUS SALVATOR LAUR.)

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Varanus fat.

Pharm. Weekblad 69, 271-6 (1932). (C.A. 26:2881⁶)

LOCUST FAT

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Fat from locusts.
Oil and Soap 16, 128 (1939). (C.A. 33:7135¹)

LUFFA ACUTANGULA, L. AEGYPTIACA, AND L. CYLINDRICA

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Oil from *Luffa acutangula* and *L. cylindrica*...
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See No. 103.

LUFFA ECHINATA AND L. GRAVEOLENS

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Chemical examination of the seeds of *Luffa graveolens* and
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Lupine seed oil.
Fette u. Seifen 52, 201-2 (1950). (C.A. 44:10355^c)

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Seed fat of *Macadamia ternifolia*.
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Chemical examination of the fixed oil of the Queensland nut
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The composition of the seeds of the maple tree.
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See also 218.

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ECHINOCHLOA CRUS-GALLI)

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Oil of Setaria italica Beauv.
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I. Analysis of Fatty Oil.
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MIMUSOPS ELENGI AND M. HEXANDRA, ROXB. (RAYAN OIL)

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Oil from Mimusops hexandra. Rayan oil.
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J. Chem. Soc. Japan 53, 439-41 (1932). (C.A. 27:202²)

MULBERRY

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Mulberry seed oil.
Gartenbauwiss 16, 371-2 (1942). (C.A. 37:785⁵)

MUSTARD (BRASSICA ALBA, B. NIGRA, AND CORINGIA ORIENTALIS L.)

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Component fatty acids of some Cruciferae oils.
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See also No. 119.

MUSTARD OIL

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Mustard Oil.
Indian Soap J. 5, 279-85 (1939). (C.A. 33:6627⁶)
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Some ill-defined acids of the oleic series. III. "Rapic acid"
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MUTTON

See Nos. 79, 81, and 696.

MUTTON BIRD (PTERODROMA TENUIROSTRIS)

489. Anonymous
Mutton bird oil and fat from Australia.
Bull. Imp. Inst. 29, 40-1 (1931). (C.A. 25:5053⁶)

MUTTON-BIRD (AESTRELATA LESSONI)

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of stomach oil and body fat.
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Chemical investigation of mutton-bird oil.
J. Soc. Chem. Ind. 40, 220T (1921). (C.A. 15:4054⁹)

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The seed fat of the annual nasturtium (*Tropaeolum* var.)
J. Chem. Soc. 1938, 1608-10. (C.A. 33:419⁷)

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NEPHELIUM MUTABILE (RAMBUTAN TALLOW, PULASSAN FAT)

See Nos. 142 and 420.

NETTLE LEAVES

See No. 10.

NIGAKI OIL (PICRASMA QUASSIOIDES BENN.)

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Nigaki oil.

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Chemical examination of the seeds of *Nigella sativa*.

I. Fatty oil.

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NIGELLA SATIVA SEED (BLACK CUMMIN)

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Oil of *Nigella sativa*.

Casopis Ceskoslov. Likarnictva 10, 317-23 (1930). (C.A. 25:5052³)

NIGER SEED OIL (GUIZOTIA ABYSSINICA)

See No. 10.

N'SOULTON (OCHOCA GABONI)

See No. 43.

NUTMEG (MYRISTICA HETEROPHYLLA, M. MALABARICA)

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Formosan Plant Seed Oils. XIV. Oils of ..., *Myristica heterophylla*,
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NUTMEG (*MYRISTICA HETEROPHYLLA*, *M. MALABARICA*) (continued)

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Nutmeg butter.
Mat. grasses 14, 6099 (1922). (C.A. 16: 2038⁷)

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OCHOCA GABONI (*N'SOULTON*)

See No. 43.

OCIMUM CANUM ("MAMRI" OR "RAMTULSI")

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Chemical examination of the fatty oil from the seeds of *Ocimum canum*.
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J. Am. Oil Chem. Soc. 25, 401-4 (1948). (C.A. 43:880⁸)

OKRA (HIBISCUS ESCULENTUS L.) (continued)

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Chemical examination of the fixed oil derived from the seeds
of Hibiscus esculentus.
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National olive oils. III. Chemical composition of the fatty
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National olive oils. I. Composition of fatty acids.
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See also No. 24.

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tea seed oils.
J. Soc. Chem. Ind. 56, 434-81 (1937). (C.A. 32:1963²)
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See also Nos. 25 and 28.

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(C.A. 24:2000⁶) cf. C.A. 23:4838

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Chemical composition of Spanish olive oil.
Oil Fat Ind. 4, 426-7 (1927). (C.A. 22:691⁸)

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Chemical composition of Tunisian olive oil.
J. Oil & Fat Ind. 4, 63-5 (1927). (C.A. 21:1720⁶)

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The chemical composition of the Bitonto type of Italian olive oil.
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Expt. Sta. Record 54, 610. (C.A. 21:2994⁴)

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Analysis and constants of olive oil.
Anales soc. espan. fis. quim. 24, 25-40 (1926). (C.A. 20:1723⁹)
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The chemical composition of California olive oil,
J. Oil & Fat Ind. 2, 40-4 (1925). (C.A. 20:2083⁸)

OLIVE, WILD (PUTRANJIVA ROXBURGHII)

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Chemical examination of the fixed oil derived from the seeds of
Putranjiva roxburghii.
Indian Soap J. 11, 169-71 (1947). (C.A. 42:3198^f)

ONION (ALLIUM CEPA)

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Industria y quimica (Buenos Aires) 10, 5-6, (1948). (C.A. 42:7551^g)
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ORANGE (CITRUS AURANTIUM DULCIS)

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Oil & Soap 21, 19-22 (1944). (C.A. 38:1133⁴)
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Chemico-analytical study of orange seed oil.
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See No. 43.

OSTRICH FAT

See No. 216.

OX

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PALAUIM OBLONGIFOLIUM

See No. 420.

PALM

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Composition of the seeds of *Asimina triloba*.
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See No. 148.

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See Nos. 142 and 196.

PARSLEY (PETROSELINUM HORTENSE)

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Food 18, 268-70 (1949). (C.A. 43:8573^d)
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Oil of parsley.

Am. Perfumer 31, 73-5 (1935). (C.A. 30:1941²)

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The composition of parsley-seed oil.

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PASSION FRUIT SEED (PASSIFLORA EDULIS)

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Granadilla (passion fruit) seed from Kenya.

Bull. Imp. Inst. 35, 22-3 (1937). (C.A. 31:4519²)

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Expressed peach kernel oil.

Ind. Eng. Chem. 39, 1452 (1947). (C.A. 42:390¹)

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The chemistry of some little-known oils. Peach kernel oils.
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The higher fatty acids of peanut oil.
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Biokhim. Kul'tur. Rastenii 7, 71-8 (1940). (C.A. 35:2561⁶)

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See No. 35.

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Composition of penguin oil.
J. Soc. Chem. Ind. Japan 41. Suppl. binding 362-4 (1938).
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Composition of pili nut oil from the Philippine Islands.
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Analysis of ground pimento.
Ann. fals. 32, 247-50 (1939). (C.A. 34:539¹)

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PINEAPPLE SEED (ANANAS SATIVUS)

See No. 729.

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Composition of the fruits of Turkish Pistacia varieties and
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The fatty oils from the seeds of Pistacia vera L.
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Fatty acids of some Indian seed oils: Seed fats of ...

Pistacia vera.

J. Soc. Chem. Ind. 50, 9-12T (1931). (C.A. 25:1401⁹)

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(C.A. 24:2320³)

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Composition of pistachio oil.

Pharm. Zentralhalle 70, 551-8 (1929). (C.A. 24:743⁵)

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The oil of *Pistacia lentiscus*.

Ann. chim. appl. 19, 76-84 (1929). (C.A. 23:5602⁶)

PITHECOLOBIUM DULCE SEED (MANILLA TAMARIND)

See No. 142.

PLANTS, AQUATIC

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PLUM (PRUNUS DOMESTICA)

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Production of oil from plum seeds.

Mezogazdasag es Ipar 2, No. 11, 27-8 (1948). (C.A. 44:5121^c)

PLUM KERNEL (PRUNUS DOMESTICA) AND ALYTSCHA KERNEL (PRUNUS DIVARICATA)

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Vegetable oils of the U.S.S.R. I. Oil from the kernels of *prunus divaricata* Led. (alytscha).

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(C.A. 24:2319⁹)

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POPPY SEED (PAPAVER RHOEAS AND P. SOMNIFERUM)

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"Comparison" of *Papaver rhoeas* seed oil with *Papaver somniferum* seed oil.

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POPPY SEED (PAPAVER RHOEAS AND P. SOMNIFERUM) (continued)

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POPPY SEED OIL (PAPAVER SOMNIFERUM)

See Nos. 24 and 783.

PORK

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Characteristics of Canadian lard.

Canadian J. Research 25F, 63-75 (1947). (C.A. 41:2816^a)

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Rev. agron. 25, 244-315 (1937). (C.A. 33:4335⁸)

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The fat acids of pig liver. III. A general analysis.

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Soft pork studies. III. The effect of food fat upon body fat, as shown by the separation of the individual fatty acids of the body fat.
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PORPOISE JAW

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Composition of porpoise jaw oil.
Oil and Fat Ind. 7, 101-2 (1930). (C.A. 24:3666⁸)

POTATO (SOLANUM TUBEROSUM)

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Constituents of the potato. II. Potato fat (ether extract).
Arch. Pharm. 283, 203-7 (1950). (C.A. 44:9081^b)
cf. C.A. 44:5494^e; 38:2135³

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See No. 142.

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PYTHON FAT

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RABBIT

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See: No. 486, No. 487

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RYE OIL (SECALE CEREALE)

See: No. 26

SAFFLOWER SEED (CARTHAMUS OXYCANTHA AND C. TINCTORIUS)

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Fatty acids and glycerides of the oil from sapota seeds (Acharas sapota).
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Sapote (mammy apple) seed and oil.
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Sapukaja nut.
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The component acids of some seal blubber and liver fats.
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See also: No. 276

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The component fatty acids of elephant seal oil.

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Sesame oil. II. Some chemical and physical properties of the
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Chemical composition of sesame oil.

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SHEA

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SHEA (BUTYROSPERMUM PARKII)

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Fatty acids and glycerides of solid seed fats. I. Composition of
the seed fats of ... Butyrospermum parkii (shea) and Vateria
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SHEEP

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The component glycerides of an Indian sheep body fat.
J. Am. Oil Chem. Soc. 26, 1-4 (1949). (C.A. 43:1997^b)

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Fatty acids in the liver of sheep.
Biochem. J. 24, 1327-36 (1930). (C.A. 25:731⁴)

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The component glycerides of a mutton tallow.
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See also: No. 25, No. 90, No. 166, No. 404

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The seeds and oil of Sinapis dissecta Lag.
Masloboino Zhirovoe Delo 1929, No. 6, 25-6. (C.A. 25:1631¹)

SINGKAMAS (PACHYRRHIZUS EROSUS L. URBAN)

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Composition of Philippine singkamas oil from the seeds of
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Philippine J. Sci. 78, 145-7 (1949). (C.A. 45:370^a)

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699. Pigulevskii, G. V., and Karasik, E. L.
Investigation of the fruit of Sium latifolium L.
J. Applied Chem. (U.S.S.R.) 9, 284-6 (1936). (C.A. 30:6226²)
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SKUNK FAT (CONEPATUS SUFFOCANS AZ.)

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The fat of the skunk, Conepatus suffocans Az.
Fette u. Seifen 44, 19 (1937). (C.A. 31:3719³)

SNAKE FAT

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Some physical and chemical properties of certain snake oils.
J. Am. Oil Chem. Soc. 27, 393-4 (1950). (C.A. 44:11125^a)

SNAKE, BOA CONSTRICTOR

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Boa constrictor fat.
J. Am. Chem. Soc. 49, 2046-7 (1927). (C.A. 21:3138²)

SNIPE (GALLINAGO MIBUTO, KOYAMA)

See: No. 105

SOLANUM NIGRUM L. AND S. INDICUM

703. Singh, Bawa Kartar, and Kumar, Abhay.
Chemical examination of *Solanum nigrum* L. I. The component
fat acids and the probable glyceride structure of the fatty
oil from seeds.
Proc. Indian Acad. Sci. 22A, 310-19 (1945). (C.A. 40:3279³)
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cf. C.A. 44:1723^d

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705. Kummerow, Fred A.
The composition of the oil extracted from 14 different varieties
of *Andropogon sorghum* var. *Vulgaris*.
Oil & Soap 23, 273-5 (1946). (C.A. 43:2450^f)
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Composition of sorghum grain oil, *Andropogon sorghum* var. *Vulgaris*.
Oil & Soap 23, 167-70 (1946). (C.A. 40:4233⁹)

SOYA-BEAN LECITHIN 1/

1/ (Fat from mold grown on soybean lecithin.)

See: No. 10

SOYBEANS

707. Alderks, O. H.
The study of 20 varieties of soybeans with respect to quantity
and quality of oil, isolated protein, and nutritional value
of the meal.
J. Am. Oil Chem. Soc. 26, 126-132 (1949). (C.A. 43:3539^f)
708. Thornton, M. H., Johnson, C. S., and Ewan, M. A.
The component fat acids of soybean lecithin.
Oil & Soap 21, 85-7 (1944). (C.A. 38:2228³)

See also: No. 79

SOYBEAN OIL (GLYCINE SOJA)

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Composition of a soybean oil of abnormally low iodine number.
Oil & Soap 15, 263-4 (1938). (C.A. 33:421⁷)
710. Yushkevich, S.
Russian soybean oil.
Fettchem. Umschau. 40, 197-200 (1933). (C.A. 28:355¹)

SOYBEAN OIL (GLYCINE SOJA) (Continued)

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Composition of Philippine soybeans and soybean oil.
Philippine J. Sci. 48, 77-88 (1932). (C.A. 26:3688³)
712. Heiduschka, A., and Eger, H.
The composition of soybean oil of Soja hospida.
Chem. Umschau Fette. Oele. Wachse Harze 38, 129-30 (1931).
(C.A. 25:3860⁸)
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Allgem. Ol- Fettztg. 27, 325-7 (1930). (C.A. 25:2868⁷)
- See also: No. 783
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Soybean oil. I. The component acids.
J. Soc. Chem. Ind. (Japan) 30, 849-55, Suppl. binding 221-2B
(In English) (1927). (C.A. 22:2478³)
cf. C.A. 22:1864
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Analysis of a soy-bean oil.
Chem. Umschau Fette, Oele, Wachse u. Harze 33, 65-70 (1926).
(C.A. 20:2911⁷)
716. Levene, P. A., and Rolf, Ida P.
Plant phosphatides. I. Lecithin and cephalin of the soy-bean.
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Composition of soy-bean oil.
J. Am. Chem. Soc. 46, 1949-53 (1924). (C.A. 18:2971⁵)
718. Baughman, W. F., and Jamieson, Geo. S.
Chemical composition of soy-bean oil.
J. Am. Chem. Soc. 44, 2947-52 (1922). (C.A. 17:346⁶)
719. Smith, W. B.
Composition of soy-bean oil.
J. Ind. Eng. Chem. 14, 530-1 (1922). (C.A. 16:2421²)
720. Low, Wilson H.
Soy-bean oil.
J. Ind. Eng. Chem. 12, 572-3 (1920). (C.A. 14:2271³)

SPANISH PEPPERMINT SEEDS (CAPSICUM ANNUM)

See: No. 43

SPINACH (*SPINACIA OLERACEA* MILL.)

721. Ueno, Sei-iti, Matuda, Sumio, and Okamoto, Katura.
Seed oil. II. Seedoil of *Spinacia oleracea* Mill.
J. Chem. Soc. Japan 62, 544-6 (1941). (C.A. 37:4587⁹)
cf. C.A. 36:6823⁸
722. Speer, John H., Wise, Edwin C., and Hart, Merrill C.
The composition of spinach fat.
J. Biol. Chem. 82, 105-10 (1929). (C.A. 23:2842³)

SQUASH, HUBBARD (*CUCURBITA MAXIMA*)

723. Baughman, Walter F., and Jamieson, George S.
Composition of Hubbard squash seed oil.
J. Am. Chem. Soc. 42, 152-7 (1920). (C.A. 14:853⁶)

SQUASH SEED

See: No. 218

STAPHYLEA PINNATA L. SEED

724. Pavlov, G.
Investigation of the seeds and oils of *Staphylea pinnata* L.
Maslobcino-Zhirovoe Delo 1932, No. 4-5, 93-5. (C.A. 27:2594¹)

STAPHYLEA OIL

725. Ferencz, A., and Cseresznyes, Gy.
Analysis of *Staphylea* oil.
Magyar. Gyogyszeresztud. Tarsasag Ertesitoje. 4, 24-9 (1928).
(C.A. 23:1004³)

STAR ANISE (*ILLICIAM VERUM*)

726. Airan, J. W., and Shah, S. V.
Study of the fatty oil from the seeds of star anise.
J. Indian Chem. Soc. 19, 175-9 (1942). (C.A. 38:2517³)

STARCH OF CASSAVA (*MANIHOT UTILISSIMA*)

727. Lehrman, Leo.
Fatty acids associated with cassava starch.
J. Am. Chem. Soc. 54, 2527-30 (1932). (C.A. 26:4200⁹)

STERCULIA PARVIFLORA

(Fruit coat and kernel fats)

See: No. 10

STRAWBERRY JUICE (FRAGARIA ELIATOR EHRH.)

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FINBACK (BALEONOPTERA PHYSALUS L.) AND HUMPED (MEGAPTERA LONGIMANA RUDOLPHI)

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See: No. 142

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ZIZYPHUS XYLOPYRA AND Z. SPINA-CHRISTI

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See also: No. 110

